

1 1. A two-layered adhesive film for bonding non-polar material such as Styrene-
2 butadiene-rubber (SBR), natural rubber or ethylene copolymers to polar materials such as
3 PVC, polyurethane, polyamide or polyester which comprises:

4 a thermoplastic polyurethane based adhesive layer adapted to bond to the said polar
5 material; and

6 an ethylene copolymer based adhesive layer adapted to bond to the said non-polar
7 material,

8 the two adhesive layers being interfacially bonded by coextrusion.

1 2. The adhesive film of claim 1 wherein one adhesive layer is selected from the group
2 consisting of acid or acrylic or anhydride modified ethylene copolymers.

1 3. The adhesive film of claim 2 wherein the other adhesive is selected from the group
2 consisting of thermoplastic polyurethanes, acrylic modified polyurethanes, acrylate modified
3 polyurethane and polyesters.

1 4. The adhesive film of claim 3 wherein the polar material is selected from the group
2 consisting of PVC, Polyvinylidene chloride, Polyvinylidene fluoride, Polyvinylfluoride,
3 Polyether amide, epoxy, polyurethane, polyamide or polyester.

1 5. The adhesive film of claim 3 wherein the non polar material is selected from the
2 group consisting of ethylene copolymers, natural rubber and styrene-butadiene rubber.

- 1 6. The adhesive film of claim 5 wherein each layer of adhesive has a thickness in the
- 2 range of between about 0.0005 inches to 0.05 inches.